

STAT



22 February 1966

U. S. Government
Washington, D.C.

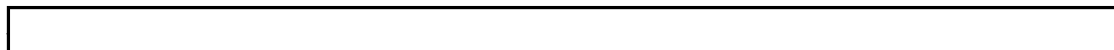
Attention: Technical Representative

Subject: Task Order No. 03(100,762)65R
Basic Agreement

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Enclosure: Direct Cost History - 22 June 1965 - 30 January 1966

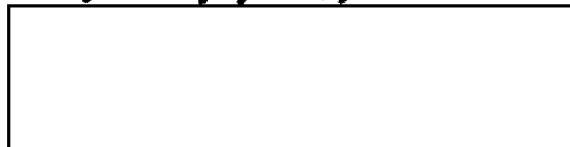
Gentlemen:



encloses herewith a breakdown of direct costs accumulated on the subject program from 22 June 1965 through 30 January 1966. The costs are shown for nine (9) different major tasks. A discription of the tasks and the costs relating to each task are contained in the enclosure.

If you have any questions, please feel free to contact the undersigned.

Very truly yours,



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DOD Contract Administration

ld

NGA Review Complete

21 Oct 65

Approved For Release 2004/08/25 : CIA-RDP78B04770A000600010020-4

Improving Image Perceptibility by Modulating Light

1. Contact Printer

2. VML DV

3. AD RPV

4. Mod II AD DV

5. VML RPV

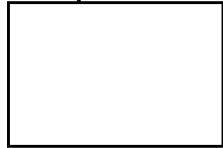
6. NCRT ML

7. Defining Criteria

Modulated Light

1. TV Image Enhancers

a.



b.

1. Log_e Printers

a. Stop and Repeat

b. Continuous Web

c. Enlarger

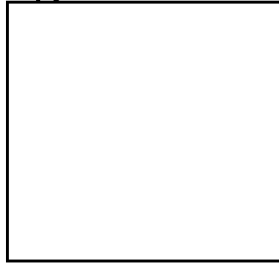
d. Fixed mag high performance

Problems: These are all automatic dodging devices. They provide recognized improvement in image viewing but have a relatively poor MTF with approx 200 lpm cut off

2. TV Type Image Enhancers

a. Navy - TIROS

(1).



(2).

b. NPIC - Recon

(1) Budd - Evaluation Report

Problems: Dodging, stretching,
compression, differentiation,
clipping, contouring, etc.

But bandwidth limits, dynamic
tonal range, S/N all serve
to limit information transfer

3. Modulated Light Viewers

a. Image Enhancement
(RADC) Microscope

b. Direct Film Viewer
(NPIC) Dodging only

4. Immediate Development
all using CRT technology

a. Direct Viewer

b. Rear Projection Viewer

c. Production Contact Printer

d. Enlarger

Spot size - B/W

5. LR Other technology

8 Feb 66

1) EPT

1. Economics / Tech Review

2. Significant achievements

3.

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1.

1. a. Improve Tools, Procedures?

2. What happened to the printer

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3.

Cost - Contact Printer

Mat / Equip Increase

PI Consultant

Eng Effort Reduced

4. Engineering Labor - 75% of Contact Cost

Total Anticipated
Current (2-1-66)

25 m/mos Eng
31 m/mos Eng

2/

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EP

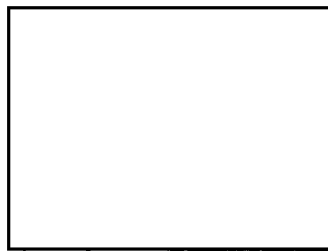
5. What is the validity of the target

6. test target SO-243
200 l/mm

7. Replacement of the fresnel.

a.

8. Use 8430 film



coming
to-date

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The Production Printer Breadboard.

a. Scanning circuitry - 70 cps at 1400 cps ✓

Omnidirectional scan

b. 1 mm - 2 mm

c. 30:1. Oscillation

d. exposure timer - integral n/s of
scanning fields

e. 0

3

9. The Electronic Image Processing System

a. Cost on this breadboard as of 1 Feb 66
including analysis



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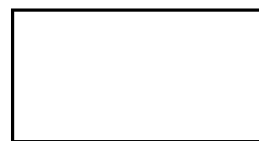
10. Use subcontracted PI's
for evaluation of photo's



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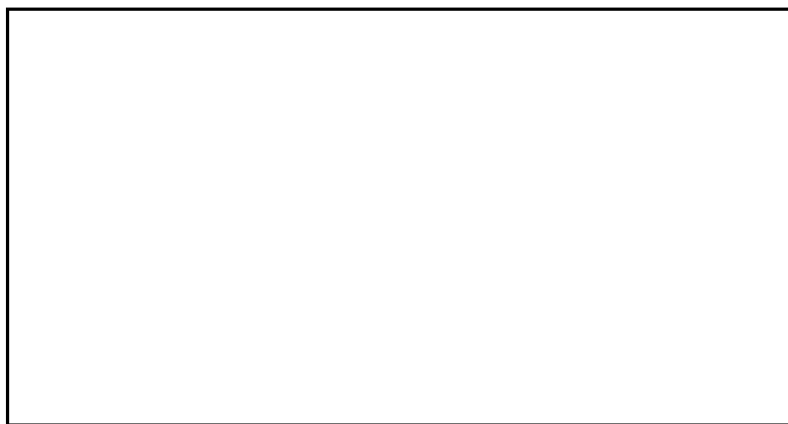
11. MLRPV

12. Freq Analyzer @



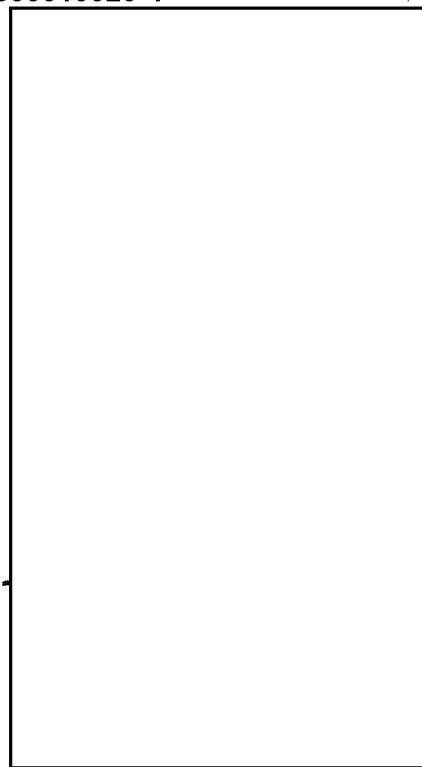
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13. Expenditures to
End of Jan



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1. High Prof Printer
2. Vers
3. Chem
4. Equip



1. EPT Cost breakdown
2. ML RVW Future
3. Freq Analy
4. Select Exposures
5. Consultant
6. Furnish samples